

METHOD AND SYSTEM FOR UMTS PACKET TRANSMISSION SCHEDULING ON SHARED DOWNLINK CHANNELS

Abstract

The invention relates to packet transmission scheduling and specifically to UMTS
5 packet transmission scheduling.

It is an object of the invention to provide an improved method for packet
transmission scheduling, especially on downlink shared channels and an
improved packet transmission scheduling system, both the improved method and
the system especially adapted to be used for UMTS systems.

10 The invention proposes a quality of service scheduling of multiple data flows in a
CDMA system, wherein

a priority order of protocol data units (PDU) of multiple data flows with
regard to predefined flow's quality of service requirements is determined and a
serving of the protocol data units (PDU) is performed by dynamically creating
15 transport block sets (TBS) to be transmitted to the physical layer (PHY-layer)
with regard to the defined priority order and in dependence of allocated radio
resource constraints.